

FIG. 1

16a

# Quadrature Mach-Zehnder Modulation Device

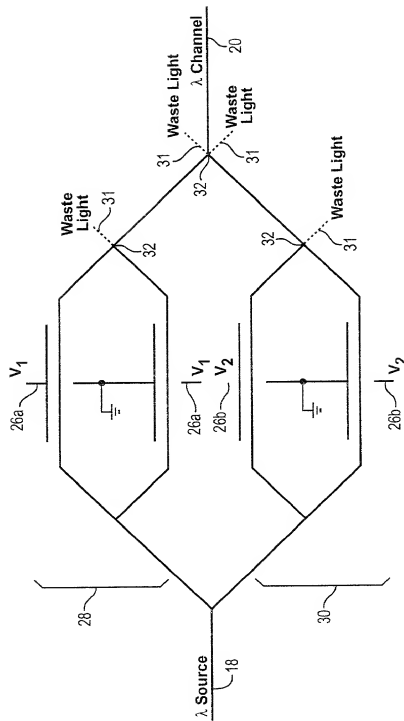


FIG. 2

# Mach-Zehnder Device Transfer Function

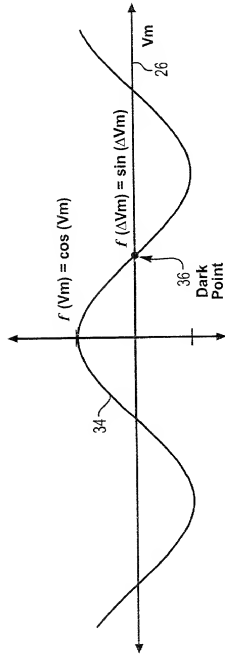


FIG. 3

12

# Modulation Synthesizer

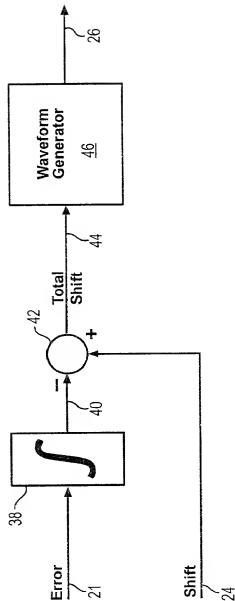


FIG. 4

12

# Quadrature Modulation Synthesizer (With On/Off Data Keying)

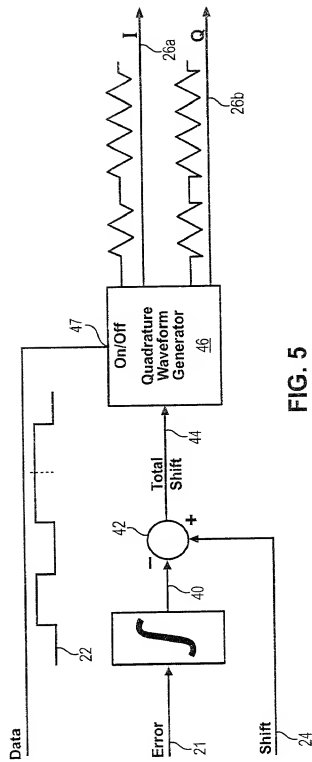


FIG. 5

# Phase Modulation Device

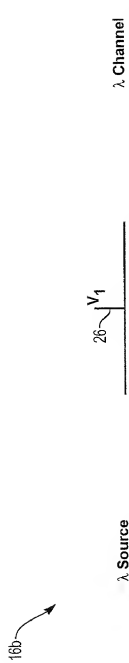


FIG. 6

# Modulation Synthesizer (With Frequency Shift Keying)

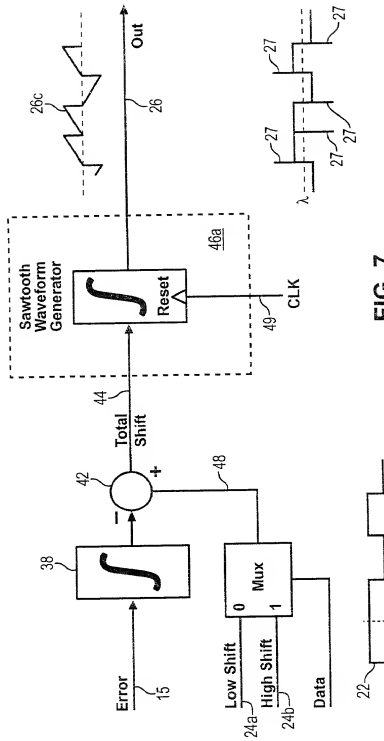
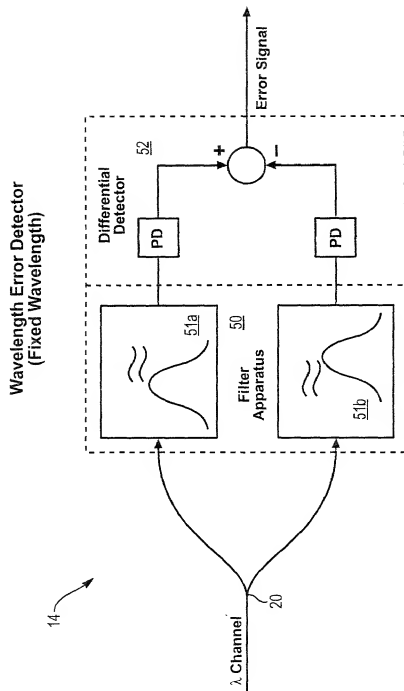
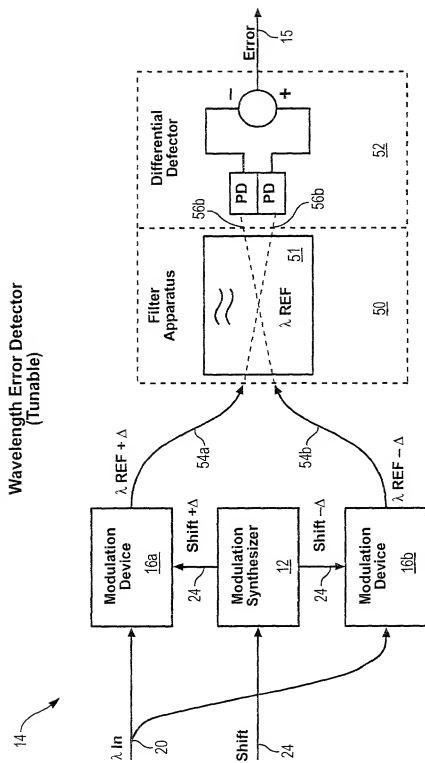


FIG. 7



**FIG. 8**





**FIG. 9**

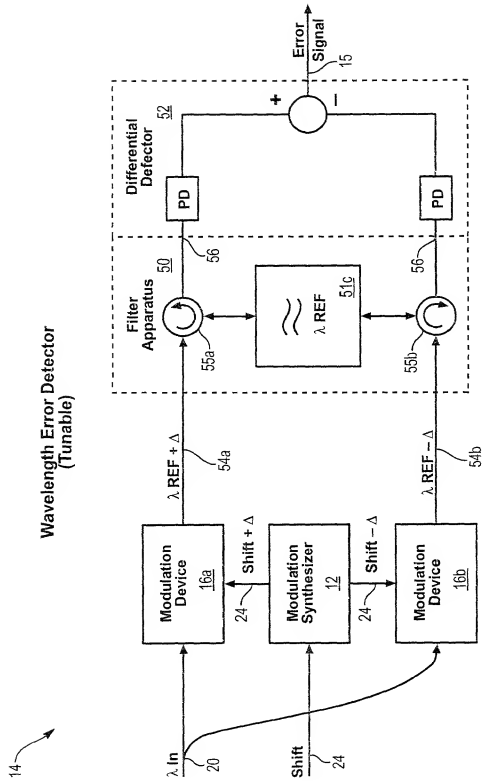


FIG. 10

# Channel Allocation Mechanism

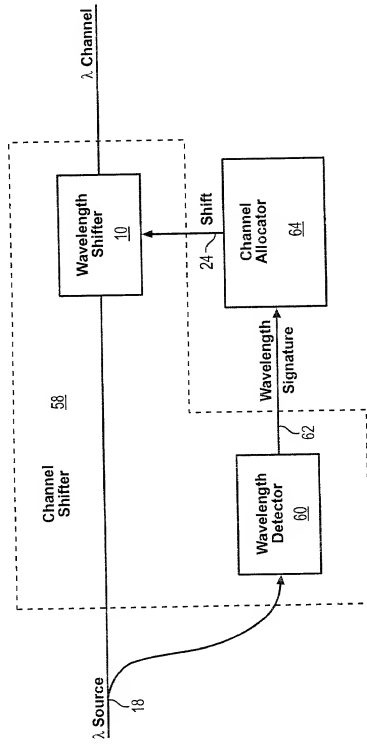


FIG. 11

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# Tunable Wavelength Stabilized Transmitter

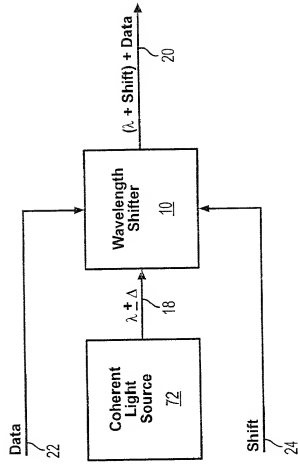
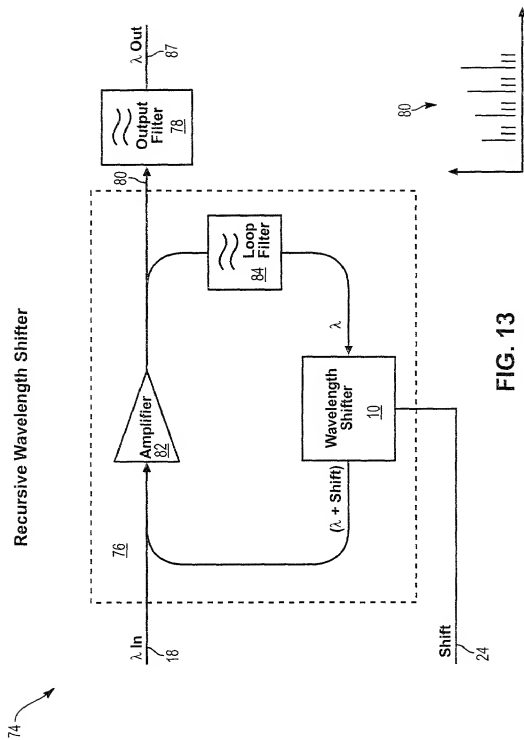


FIG. 12



**FIG. 13**

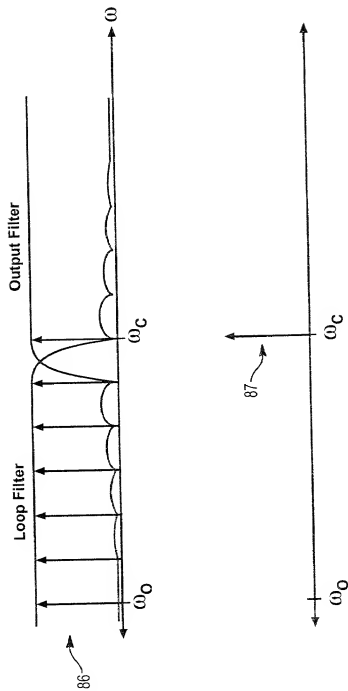


FIG. 14